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	Application No.	Applicant(s)	
	10/709,390	HOMANN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Suzanne E. McDowell	1732	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to paper filed 9/26/06.			
2. The allowed claim(s) is/are <u>1-20</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re-	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		948) attached	
1) hereto or 2) to Paper No./Mail Date		,	
(b) including changes required by the attached Examiner's		Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATERIAL IN FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. I AL MATERIAL.	Note the
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atont Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	* *	
	Paper No./Mail Dat 7.	e	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u> 	7. 🗌 Examiner's Amendr	nent/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's Stateme	ent of Reasons for Allo	owance
o. Diological material	9.		

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 8/6/04; 4/18/06; 9/26/06.

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REASONS FOR ALLOWANCE

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1. The following is an examiner's statement of reasons for allowance: Regarding the method claims, the prior art does not teach or fairly suggest a method of gas assist injection molding by introducing a gas into a plastic material injected into a mold cavity, to form a hollow cavity in the material, the steps of continuing to inject plastic material into the mold cavity until the cavity is filled, packing or filling the plastic material into the mold cavity, and injecting a second volume of gas into the plastic material. the prior art does not teach or fairly suggest, in an apparatus for gas assist injection molding, the following limitations: a sensing device positioned in the mold next to the mold cavity, and which is capable of detecting the presence of plastic material in the mold cavity; a fixed volume reservoir with a first volume of gas; a control mechanism capable of allowing a first volume of gas to flow into the mold cavity when the sensor detects the presence of plastic material in the mold cavity; and a gas controller capable of being used to introduce a second volume of gas into the mold cavity. Prior art such as EP 0950493 A1 actually teaches against the instant claims, because it does not have a sensing device or a controller, and has a spill cavity (20), which is against packing or filling the mold. Additional prior art is Keller et al. (US Patent 6,063,315), which controls the injection of plastic and gas by a predetermined time interval, and is programmed to close the gate valve (68) prior to opening the gas control valves (78, 80, 82). Rather than anticipating the instant claims, these references actually teach against the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suzanne E. McDowell whose telephone number is (571) 272-1205. The examiner can normally be reached on MWF 8:00am-6:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

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Christina Johnson can be reached on (571) 272-1176. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

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direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

Suzanne E. McDowell Primary Examiner

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October 2, 2006